### **EUROPEAN PAEDIATRIC ASSOCIATION**





# Plan for the Worst, but Hope for the Best: Investing in Pediatric Services

Massimo Pettoello-Mantovani, MD, PhD<sup>1,2</sup>, Angel Carrasco-Sanz, MD<sup>1,3</sup>, Tudor Lucian Pop, MD, PhD<sup>1,4</sup>, Julije Mestrovic, MD<sup>1,5</sup>, Eli Somekh, MD<sup>1,6</sup>, Ida Giardino, MD<sup>2</sup>, Leyla Namazova-Baranova, MD, PhD<sup>1,7</sup>, Hilary Hoey, MD<sup>1,8</sup>, and Mehmet Vural, MD<sup>1,9</sup>

illions of young children throughout the world are not reaching their full potential owing to poor economic conditions, causing a variety of social disadvantages, including inadequate nutrition, lack of early stimulation and education, and major exposure to communicable and noncommunicable diseases. Adverse socioeconomic circumstances in childhood are not isolated experiences but rather cofactors predisposing children to a state of general disadvantage, resulting in various detrimental health consequences associated with increased morbidity and mortality later in life.

The World Health Organization, the World Bank, and several individual countries have made global investments to reduce socioeconomic gaps in childhood, establishing intervention programs in different settings, particularly in economically disadvantaged countries. Their strategic approach is based on the principle that investing in the early years is one of the smartest investments the global community can make to break the cycle of poverty and address inequality while promoting health and well-being and boosting productivity later in life.<sup>4</sup>

In low- and middle-income countries, approximately 250 million children aged <5 years (43% of this population) will fail to attain their potential because of adversities and deficient socioeconomic conditions that they face during their early years. <sup>4,5</sup> However, the risk of poverty or social exclusion is also a real threat in many areas traditionally considered economically privileged.<sup>6</sup> Currently, approximately 30 million European children living in the Eurozone are facing poverty, a dramatic decline in opportunities, and denial of their rights.<sup>7</sup> The current economic, financial, and social crisis resulting from the COVID-19 pandemic is increasing these risks. Projection data indicate that the pandemic will take its toll on society, particularly on younger people, for some time to come, undermining social welfare, including healthcare systems, in low-, medium-, and high-income countries alike.<sup>8</sup> The aim of this commentary written by the Working Group on Social Pediatrics of the European Paediatric Association and the Union of National European Paediatric Societies and Associations is to emphasize the importance of investing in pediatric health and services, calling for early action to limit the impact of the COVID-19 pandemic-related global economic recession on young people.

## A Decade of Declining Welfare Affecting Children's Health and Well-Being in the Western World

After the Second World War, the state of children's health and well-being in economically advanced countries has steady improved. However, more recent events have slowed this positive trend. The global financial crisis of 2009 inaugurated a decade of general socioeconomic decline, which seriously affected the living conditions of people in many Western countries, especially fragile families and their children.<sup>10</sup> Following the 2009 economic depression, approximately 30% of children living in European Union (EU) countries and increasing numbers of US households experienced poverty and social exclusion, resulting in unequal access to resources and opportunities for a healthy and happy childhood, including good nutrition and fair quality education. 11,12 The 2012 United Nations Children's Fund Report 13 shows that following the 2007-2009 Great Recession, the United States ranked 34th out of 35 member nations of the Organization for Economic Cooperation and Development.<sup>14</sup> However, income support and direct benefits provided by government programs have mitigated the recessive social effects of economic depression, as the family poverty rate was reduced from an estimated 31% to approximately 16% in 2014. 15,16 In Europe, modest yet encouraging early signs of recovery from a state of social uncertainty were severely hampered by the unexpected 2020 COVID-19 pandemic, which further distressed the socioeconomic conditions of the European population. In an effort to react to the negative situation, the EU released a recovery plan with a total cost of \$2 trillion, <sup>17</sup> funded by a mix of grant funding and loans to states. The largest long-term budget in the EU's history should be used to confront today's realities and in planning to prevent tomorrow's uncertainties. However,

From the <sup>1</sup>European Paediatric Association/Union of National European Paediatric Societies and Associations, Berlin, Germany; <sup>2</sup>Department of Medicine and Surgical Science, University of Foggia, Foggia, Italy; <sup>3</sup>European Confederation of Primary Care Pediatricians. Lyon, France; <sup>4</sup>Second Pediatric Clinic, University of Medicine and Pharmacy, Iuliu Hatieganu Cluj-Napoca, Romania; <sup>5</sup>Department of Pediatrics, Medical School of Split, University Hospital of Split, Split, Croatia; <sup>6</sup>Department of Pediatrics, Bnei Brak and The Sackler School of Medicine, Tel Aviv University, Tel Aviv-Ramat Aviv, Israel; <sup>7</sup>Department of Pediatrics, Russian Medical Research and Scientific University of Moscow, Moscow, Russia; <sup>8</sup>Department of Paediatrics, Trinity College Dublin, Dublin, Ireland; and <sup>9</sup>Department of Pediatrics, Istanbul University Cerrahpaşa, Medical Faculty, Istanbul, Turkey

The authors declare no conflicts of interest.

0022-3476/\$ - see front matter. © 2021 Elsevier Inc. All rights reserved https://doi.org/10.1016/j.jpeds.2021.02.001

Ш

despite the commitments made by EU decision makers, the national European pediatric societies raised strong concerns, as marginalized communities and vulnerable group populations, including children and elderly persons, are currently at risk for becoming even more vulnerable owing to a prolonged state of emergency caused by the pandemic. Their health and well-being may suffer a long-term decline that could be difficult to reverse owing to further worsening of their socioeconomic conditions, already compromised by the recessive effects of the 2009 financial crisis. 19

#### **Childhood Poverty and Social Exclusion in Europe**

Children are generally socioeconomically disadvantaged compared with persons of working age.<sup>20</sup> The child poverty count is typically multidimensional and based on the analysis of several standard indicators.<sup>21</sup> The average child poverty rate in the EU countries, which is formally monitored by the EU statistical database (Eurostat), showed significant variations during the past decade. More than 20% of those age <24 years in the EU were living at risk of poverty in 2010; thus, 1 in 5 young people were living in a household with an income <60% of the national median income.<sup>22</sup> In 2016, the proportion of children at risk of poverty or social exclusion in the EU was 26.4%. data released by Eurostat for the year 2019 show that 92.4 million people in the EU countries, equivalent to 21.1% of the population, were at risk of poverty or social exclusion.<sup>23</sup> Eurostat reported that in 2019, approximately two-fifths of the population living in single adult households with dependent children were at risk of poverty or social exclusion, and the risk of poverty or social exclusion was also relatively high among households composed of 2 adults with more than 2 children. These data are of great concern to the European pediatric societies. 12 The data analysis indicates an important cross-country variation in dimensional child poverty rates. However, in every European country there are children living in poverty, including the well-developed northern European countries Germany, Holland, and the Czech Republi, and the Scandinavian model welfare states Norway, Sweden, Denmark, Finland and Iceland.<sup>7,23</sup> Eurostat reports that in these countries, 11.9%-19.4% children were at risk of poverty or social exclusion during the past decade. In Greece, Italy, Hungary, and Latvia, this figure is 33%-41%, and in Romania and Bulgaria, it is more than one-half (52%).<sup>24,25</sup>

#### Social and Economic Return of Investing in Children

During the years following the 2009 global crisis, the European members of the G8, including Italy and France, which have a GDP per capita of between €24 000 and €29 000, had from one-fifth to one-third of their children at risk of poverty or social exclusion. Owing to the economic effects of the COVID-19 pandemic, these negative trends will not soon be reversed. Correlations between the economy and the health of children are complex, and establishing causative links is difficult. The return of investment on children's services is measurable only over the long term. However, several studies have demonstrated that an integrated approach including health, nutrition, education, and income supplementation programs may trigger significant increases in future wages in adulthood for children involved. States the G8 including health and the control of the

#### **Conclusions**

The health and well-being of children is in decline. 12 The Union of the European Societies of Pediatrics is actively engaged in raising the awareness of governments and legislators of the importance of planning for the worst but hoping for the best<sup>32</sup> by investing in children. Investments in services useful for improving the physical, mental, and emotional development of children during their developmental years are critical for promoting and preserving their well-being throughout their lifetime. <sup>33,34</sup> Social mobility in European societies is currently uneven and not improving; wellplanned investments in children may help ameliorate this disadvantage and may be passed from one generation to the next.<sup>34</sup> Providing individuals with the proper constructive conditions to build a balanced healthy physical and mental state will contribute not only to the quality of life of single individuals or of groups of people, but also to the welfare of nations.<sup>4,35,36</sup> ■

Reprint requests: Massimo Pettoello-Mantovani, MD, PhD, Department of Pediatrics, Scientific Institute "Casa Sollievo della Sofferenza," University of Foggia, Via Pinto, 1 - 71100 Foggia, Italy. E-mail: mpm@unifg.it

**References** available at www.jpeds.com

ഥ

Ш

#### References

- Sayre RK, Devercelli AE, Neuman MJ, Wodon Q. Investing in early childhood development: review of the World Bank's recent experience. Washington (DC): World Bank Publishing and Knowledge Division; 2015
- Smith GD, Hart C, Blane D, Hole D. Adverse socioeconomic conditions in childhood and cause specific adult mortality: prospective observational study. BMJ 1998;316:1631-5.
- **3.** Power C, Hyppönen E, Davey Smith G. Socioeconomic position in childhood and early adult life and risk of mortality: a prospective study of the mothers of the 1958 British birth cohort. Am J Public Health 2005;95:1396-402.
- 4. Chan M, Lake A, Hansen K. The early years: silent emergency or unique opportunity? Lancet 2017;389:11-3.
- Black MM, Walker SP, Fernald LCH, Andersen CT, DiGirolamo AM, Lu C, et al. Lancet Early Childhood Development Series Steering Committee. Early childhood development coming of age: science through the life course. Lancet 2017;389:77-90.
- **6.** Fresno JM, Meyer S, Bain S. Feasibility study for a child guarantee—target group discussion paper on children living in precarious family situations. Brussels: European Commission; 2019.
- Eurostat. EU statistics on income and living conditions (EU-SILC) methodology Europe 2020 target on poverty and social exclusion.
   Accessed January 12, 2021. https://ec.europa.eu/eurostat/statistics-explained/index.php/EU\_statistics\_on\_income\_and\_living\_conditions\_(EU-SILC)\_methodology\_-\_Europe\_2020\_target\_on\_poverty\_and\_social\_exclusion
- Save the Children International. The hidden impact of Covid-19 on children: a global research series. Accessed January 12, 2021. https:// resourcecentre.savethechildren.net/library/hidden-impact-covid-19children-global-research-series
- World Health Organization. Situation of child and adolescent health in Europe. Accessed January 13, 2021. https://www.euro.who.int/\_ data/assets/pdf\_file/0007/381139/situation-child-adolescent-healtheng.pdf
- Pettoello-Mantovani M, Pop TL, Mestrovic J, Ferrara P, Giardino I, Carrasco-Sanz A, et al. Fostering resilience in children: the essential role of healthcare professionals and families. J Pediatr 2019;205:298-9.e1.
- 11. European Commission. Employment, social affairs and inclusion. Accessed January 13, 2021. https://ec.europa.eu/social/main.jsp?catId=1428&langId=en
- 12. Hoey H, Mestrovic J, Vural M, Namazova-Baranova L, Somekh E, Pettoello-Mantovani M. Children facing natural, economic and public health crisis in Europe: the risks of a predictable unpredictability. Turk Pediatri Ars 2020;55(Suppl 1):4-9.
- UNICEF Innocenti Research Centre. Measuring child poverty: new league tables of child poverty in the world's rich countries. 2012. Accessed January 16, 2021. https://www.unicef-irc.org/publications/ pdf/rc10\_eng.pdf
- Organization for Economic Cooperation and Development. Child poverty. OECD database. Accessed January 16, 2021. www.oecd.org/ els/soc/CO2\_2\_ChildPoverty\_Jan2014. pdf
- American Academy of Pediatrics Council on Community Pediatrics. Poverty and child health in the United States. Pediatrics 2016;137: e20160339.
- United States Census Bureau. One in five children receive food stamps, Census Bureau reports. Accessed January 16, 2021. https://www.census.gov/newsroom/press-releases/2015/cb15-16.html
- 17. European Commission. Recovery plan for Europe. Accessed January 13, 2021. https://ec.europa.eu/info/strategy/recovery-plan-europe\_en

- Hoey H, Pettoello-Mantovani M, Vural M. Diversity of child health care in Europe. Arch Dis Child 2020 https://doi.org/10.1136/archdischild-2020-319584 [Epub ahead of print].
- Chzhen Y. Child poverty and material deprivation in the European Union during the Great Recession, Innocenti Working Paper No.2014-06. Florence: UNICEF Office of Research; 2014.
- European Commission. European social statistics: Income, poverty and social exclusion: 2nd report. 2002. Luxembourg: Office for Official Publications of the European Communities; 2002. Accessed January 16, 2021. https://ec.europa.eu/eurostat/documents/3217494/5644177/KS-BP-02-008-EN.PDF/78eea8e8-63cd-45eb-ad7a-a890a0823694
- Chzhen Y, Bruckauf Z, Toczydlowska E. Sustainable development goal 1.2: multidimensional child poverty in the European Union. Innocenti Working Paper 2017-07. Florence: UNICEF Office of Research; 2017.
- Council of Europe. Compass: manual for human rights education with young people. 2015. Accessed January 14, 2021. https://www.coe.int/ en/web/compass
- 23. Eurostat. At-risk-of poverty rate for children by citizenship of their parents (population aged 0 to 17 years). Accessed January 14, 2021. https://data.europa.eu/euodp/en/data/dataset/6aXYK47xt01Xt1Vbuh6A
- 24. Save the Children. Child poverty and social exclusion in Europe: a matter of children's rights. Accessed January 16, 2021. https://resourcecentre.savethechildren.net/sites/default/files/documents/child-poverty-and-social-exclusion-in-europe-low-res.pdf
- Corsello G, Ferrara P, Chiamenti G, Nigri L, Campanozzi A, Pettoello-Mantovani M. The child health care system in Italy. J Pediatr 2016;177S:S116-26.
- The World Bank. GDP per capita (current US\$). World Bank national accounts data, and OECD National Accounts data files. Accessed January 16, 2021. http://data.worldbank.org/indicator/NY.GDP.PCAP.CD
- 27. Pettoello-Mantovani M, Ehrich J, Sacco M, Ferrara P, Giardino I, Pop TL. Food insecurity and children's rights to adequate nutrition in Europe. J Pediatr 2018;198:329-30.e1.
- 28. Richter LM, Daelmans B, Lombardi J, Heymann J, Boo FL, Behrman JR, et al. Investing in the foundation of sustainable development: pathways to scale up for early childhood development. Lancet 2017;389:103-18.
- **29.** Gertler P. The impact of PROGESA on health. Final report. Washington (DC): International Food Policy Research Institute, Food Consumption and Nutrition Division; 2000.
- 30. de Walque D, Fernald L, Gertler P, Hidrobo M. Cash transfers and child and adolescent development. In: Bundy DAP, de Silva N, Horton S, Jamison DT, Patton GC, eds. Child and adolescent health and development: realizing neglected potential. 3rd ed. Washington (DC): The International Bank for Reconstruction and Development/The World Bank; 2017. Chapter 23.
- 31. Pettoello-Mantovani M, Namazova-Baranova L, Ehrich J. Integrating and rationalizing public healthcare services as a source of cost containment in times of economic crises. Ital J Pediatr 2016;42:18.
- **32.** Disraeli B. The wondrous tale of Alroy: the rise of Iskander. London: Saunders and Otley; 1833. Pt.10, Ch.3.
- 33. McIntosh ED, Janda J, Ehrich JH, Pettoello-Mantovani M, Somekh E. Vaccine hesitancy and refusal. J Pediatr 2016;175:248-9.e1.
- **34.** Ehrich JHH, Kerbl R, Pettoello-Mantovani M, Lenton S. Opening the debate on pediatric subspecialties and specialist centers: opportunities for better care or risks of care fragmentation? J Pediatr 2015;167:1177-8.e2.
- **35.** Ferrara P, Caporale O, Cutrona C, Sbordone A, Amato M, Spina G, et al. Femicide and murdered women's children: which future for these children orphans of a living parent? Ital J Pediatr 2015;41:68.
- Wolfe I, Thompson M, Gill P, Tamburlini G, Blair M, van den Bruel A, et al. Health services for children in western Europe. Lancet 2013;381: 1224-34.

315.e1 Pettoello-Mantovani et al